AUTODOC CLUB

How to change spark plugs on **Mercedes W203 V6** – replacement guide

VIDEO TUTORIAL

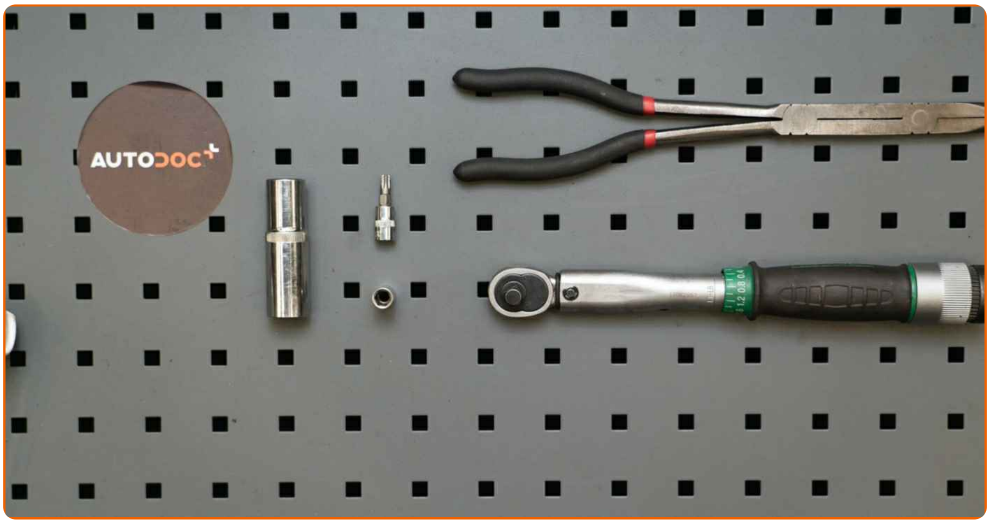


Important!

This replacement procedure can be used for:
MERCEDES-BENZ E-Class Saloon (W124) E 200 (124.019), MERCEDES-BENZ E-Class Saloon (W124) E 220 (124.022), MERCEDES-BENZ E-Class Saloon (W124) E 280 (124.029), MERCEDES-BENZ E-Class Saloon (W124) E 280 (124.028), MERCEDES-BENZ W124 Saloon (W124) 300 E-24 3.0 (124.031), MERCEDES-BENZ E-Class Saloon (W124) E 320 (124.032), MERCEDES-BENZ E-Class Saloon (W124) E 420 (124.034), MERCEDES-BENZ E-Class Saloon (W124) E 500 (124.036), MERCEDES-BENZ W124 Saloon (W124) 500 E 5.0 (124.036), MERCEDES-BENZ E-Class T-modell (S124) E 200 T (124.079), MERCEDES-BENZ E-Class T-modell (S124) E 220 T (124.082), MERCEDES-BENZ E-Class T-modell (S124) E 280 T (124.088), MERCEDES-BENZ W124 Estate (S124) 300 TE-24 3.0 (124.091), MERCEDES-BENZ E-Class T-modell (S124) E 320 T (124.092), MERCEDES-BENZ S-Class Saloon (W108, W109) 250 S 2.5 (108.012), (+ 232)

The steps may slightly vary depending on the car design.

REPLACEMENT: SPARK PLUGS – MERCEDES W203 V6. TOOLS YOU MIGHT NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Torque wrench
- Torx bit T30
- Spark plug socket # 16
- Ratchet wrench
- Long round nose pliers
- Microfibre towel
- Fender cover

BUY TOOLS

Replacement: spark plugs – Mercedes W203 V6. Professionals recommend:

- The replacement procedure is the same for all spark plugs.
- All work should be done with the engine stopped.

REPLACEMENT: SPARK PLUGS – MERCEDES W203 V6. TAKE THE FOLLOWING STEPS:

1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Remove the engine cover.



AUTODOC recommends:

- Replacement: spark plugs – Mercedes W203 V6. Do not use excessive force when removing the part as this may damage it.

4 Remove the air intake hoses.



5 Clean the air filter cover and housing.



Replacement: spark plugs – Mercedes W203 V6. Tip:

- Before cleaning the air filter cover and housing, cover the air duct parts, mass airflow sensor (if available), throttle valve with a clean cloth.

6 Remove the air filter housing.



AUTODOC recommends:

- Replacement: spark plugs – Mercedes W203 V6. To avoid damaging the part when removing it, do not use excessive force.

7 Cover the throttle body with a microfibre towel to prevent dust and dirt from getting into the system.



8 Unplug the connectors from the ignition coils.



9 Remove the spark plug wire connectors from the spark plug wells. Use long round nose pliers.



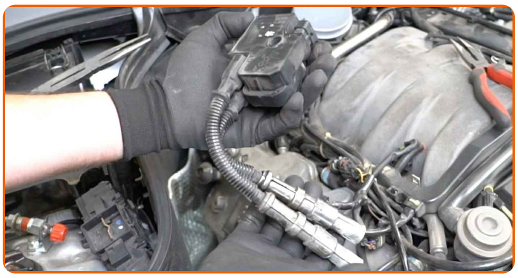
Replacement: spark plugs – Mercedes W203 V6. Tip from AUTODOC:

- Be careful to avoid damaging spark plug wires.
- Remember the sequence of the spark plug wires connectors.

10 Unscrew the fasteners of the ignition coils. Use Torx T30. Use a ratchet wrench.



11 Take out the ignition coil from the spark plug well.

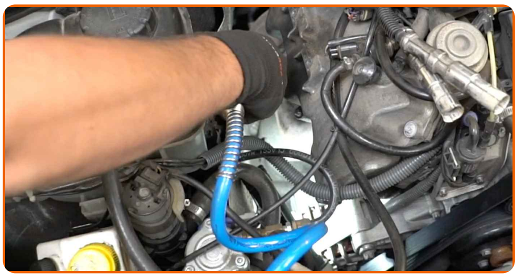


Replacement: spark plugs – Mercedes W203 V6. AUTODOC experts recommend:

- Remember the sequence of steps for ignition coil demounting.

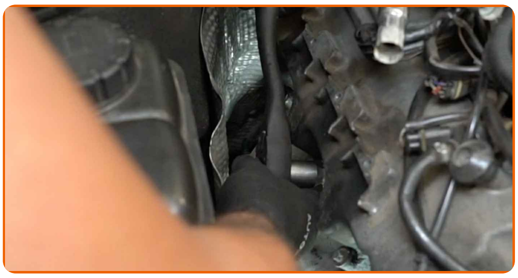
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Clean dirt, dust and debris from inside the spark plug wells.



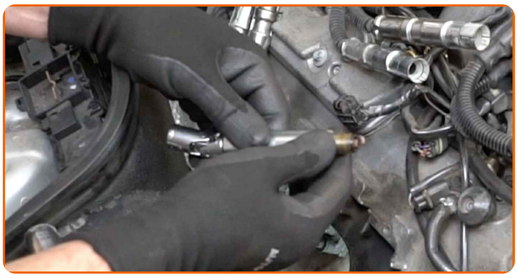
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Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.



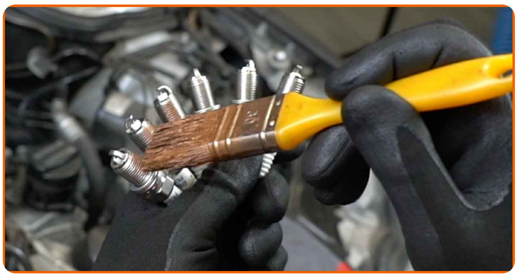
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Take out the spark plugs.



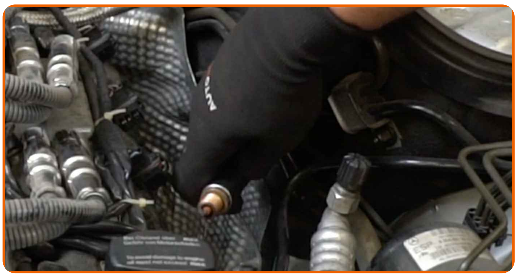
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Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs.

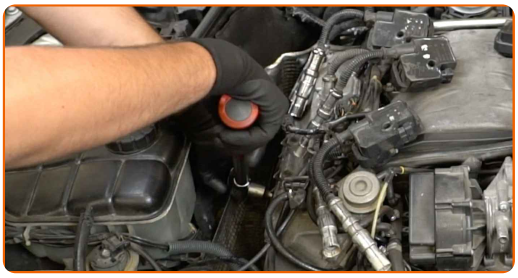


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Install the new spark plugs into their mounting seats.



17 Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 27 nm torque.



Replacement: spark plugs – Mercedes W203 V6. Professionals recommend:

- Don't tighten the plugs with excessive force. Exceeding tightening torque can damage the thread connection.
- Be careful when working with a spark plug wrench. Its skewing can cause damage to the threaded connection.

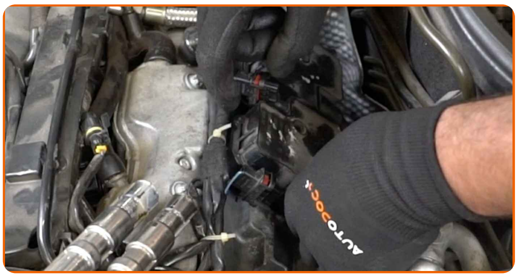
18 Install the ignition coils to the spark plug wells.



Replacement: spark plugs – Mercedes W203 V6. AUTODOC experts recommend:

- Follow the installation sequence.

19 Install the spark plug wire connectors into the spark plug wells. Make sure you hear a click indicating that it is locked in place.



Replacement: spark plugs – Mercedes W203 V6. AUTODOC recommends:

- Follow the installation sequence.

20 Tighten the ignition coil fasteners. Use Torx T30. Use a torque wrench. Tighten it to 18 nm torque.

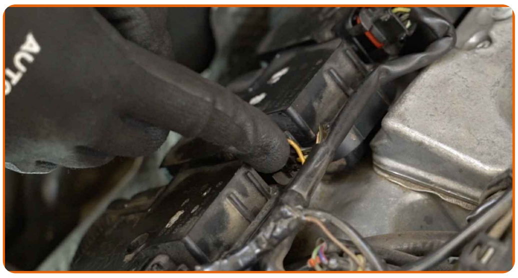


21 Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.



22

Plug in the connectors of the ignition coils. Make sure you hear a click indicating that it is locked in place.



23

Remove the microfibre towel from the throttle body.



24

Install the air filter housing.



AUTODOC recommends:

- Replacement: spark plugs – Mercedes W203 V6. Do not use excessive force during installation. This may damage the part.

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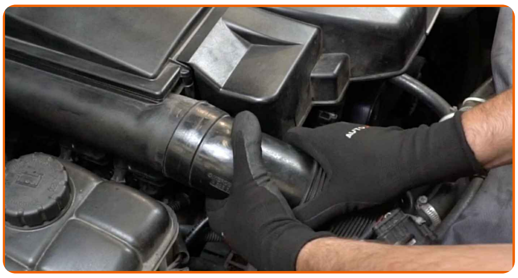
Install the engine cover and secure it.



AUTODOC recommends:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners and the throttle body air intake hose.
- Replacement: spark plugs – Mercedes W203 V6. To avoid damaging the part during installation, do not use excessive force.

26 Reinstall the air intake hoses.

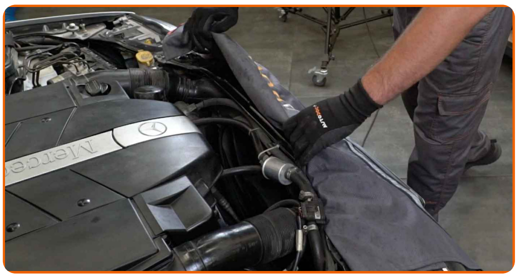


27 Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.



28 Shut off the engine.

29 Remove the fender protection cover.



30

Close the hood.

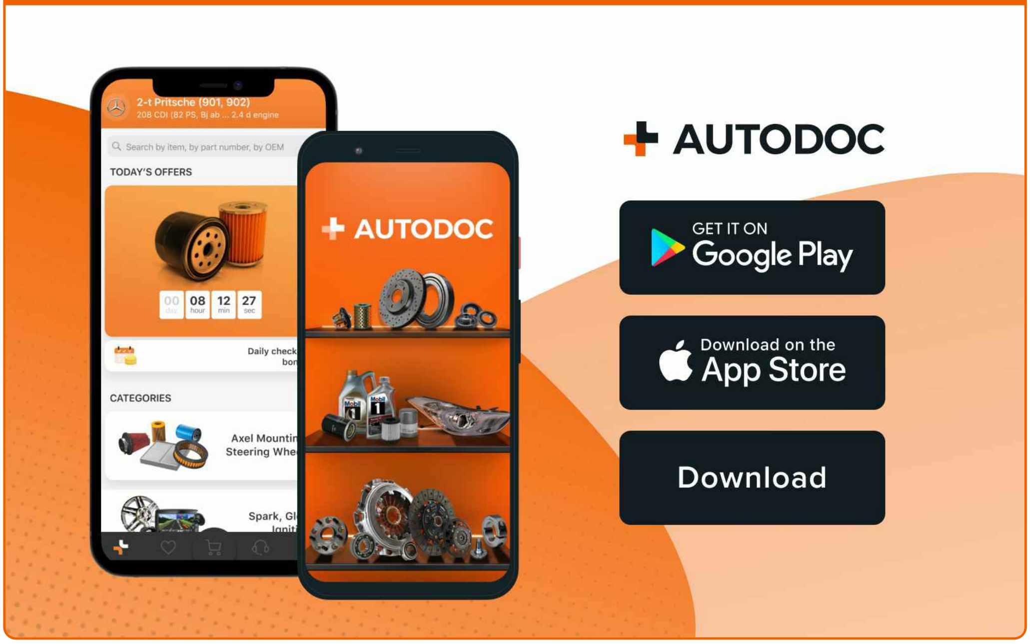


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